DECLARATION FOR UTILITY

PTO/SB/05 (12/97)
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Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

QCS-003 (6695/4)

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Atty. Docket No.

l		OR DESIGN	First Named Inventor:	Emil Kamieniecki				
PATENT APPLICATION (37 CFR 1.63) Declaration Declaration			COMPLETE IF KNOWN					
			Application Number.: Not yet assigned					
			Filing Date	Herewith				
ı	Submitted wi	th Submitted after Initial	Group Art Unit					
	with Initial F	iling Filing (surcharge (37 CFR 1.16(e) required	Examiner Name					
		Design, National Stage of PCT,		l, Continuation or CIP)				
		below named inventor, I hereby						
	am the originventor (if sought on t	inal, first and sole inventor (if o	nly one name is listed be of the subject matter whi	below next to my name, and I believe I low) or an original, first and joint ch is claimed and for which a patent is O-THERMAL SURFACE				
	the specification of which (check one):							
20	\boxtimes	is attached hereto.						
		was filed on as Application Serial No. 0 / or						
200		was described and claimed in PCT International Application No filed on and as amended under PCT Article 19 on (if any).						
2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	I here including tl	by state that I have reviewed an he claims as amended by any an		s of the above identified specification, erred to above.				
	1 4015	nowledge the continuing duty to in accordance with 37 C.F.R. §		ich is material to the examination of this				
	PRIORITY CLAIM							
	A.	I hereby claim benefit under 3:, filed on	5 U.S.C. 119(e) of Unite	d States Provisional Application No.				
B. I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application(s) designating at least one country other than the United States of America listed below and I have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) to which priority is claimed.								
		no such applications have been	n filed.					
		such applications have been fi	led as follows:					

(Application Serial No.)

(Application Serial No.)

EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

		Application Number	Date of Filing (mo., day, year	_	Priority Claimed Under 35 USC 119			
				□YES	№ 🗆			
•		·		□YES	NO 🗌			
				□YES	NO 🗌			
	C. I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) or §365(c) of any PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. §1.56 which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application. PRIOR U.S. NON-PROVISIONAL APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 USC §120:							
1	U.S. APPLICAT	TIONS	U.S. FILING DATE	S	TATUS			
(Appli	ication Serial No.)		(Filing Date)	(Status) (patented, per	nding, aband.)			

(Status) (patented, pending, aband.)

(Status) (patented, pending, aband.)

(Filing Date)

(Filing Date)

POWER OF ATTORNEY

As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith:

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Direct correspondence to:

Patent Administrator Testa, Hurwitz & Thibeault, LLP High Street Tower 125 High Street Boston, MA 02110

Direct telephone calls to:

Thomas A. Turano (617) 248-7738

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

To the beset of my/our knowledge, information and belief, formed after an inquiry reasonable under the circumstances, this paper is not being presented for any in proper purpose. Further, the contentions made herein are warranted by law and/or are supported by facts available for consideration as evidence.

SIGNATURE(S)

Emil Kamieniecki, Ph.D.	U.S.A.
Full name of inventor	Citizenship
_ Einel Konnilenider	January 6, 1998
Inventor's signature	Date
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Residence	
same as above	
Post Office Address	

426ЛS6695/4.456408-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):

Kamieniecki

SERIAL NO.:

Not Yet Assigned

GROUP NO.:

Not Yet Assigned

FILED:

October 10, 2001

EXAMINER:

Not Yet Assigned

TITLE:

APPARATUS AND METHOD FOR RAPID PHOTO-

THERMAL SURFACE TREATMENT

Box Patent Application

Assistant Commissioner for Patents

Washington, D.C. 20231

ASSOCIATE POWER OF ATTORNEY

Sir:

An associate power of attorney is hereby granted to:

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10	Elias C. Behrakis	47,416	Thomas C. Meyers	36,989
	John V. Bianco	36,748	Joseph B. Milstein	42,897
T. H.	Isabelle A.S. Blundell	43,321	David G. Miranda	42,898
A	Maureen A. Bresnahan	44,559	Ronda P. Moore	44,244
300 300	Michael H. Brodowski	41,640	Indranil Mukerji	46,944
* T	Jennifer A. Camacho	43,526	Michael A. Rodriguez	41,274
F110	Brian A. Fairchild	48,645	Jamie H. Rose	45,054
2 207	John V. Forcier	42,545	R. Stephen Rosenholm	45,283
3	Steven J. Frank	33,497	Christopher W. Stamos	35,370
	Kia L. Freeman	47,577	Diana M. Steel	43,153
44	Brian M. Gaff	44,691	Joel Stettenheim	48,797
	William G. Guerin	41,047	Joseph P. Sullivan	45,349
	Jonathan A. Harris	44,744	Patrick R.H. Waller	41,418
\$ -50°	Ira V. Heffan	41,059	Daniel A. Wilson	45,508
	Danielle L. Herritt	43,670	Gerald E. Worth	45,238
	John D. Lanza	40,060	Yin P. Zhang	44,372

in connection with the above-identified patent application.

Please continue to direct all correspondence relating to the above application to:

Patent Administrator Testa, Hurwitz & Thibeault, LLP High Street Tower 125 High Street Boston, MA 02110

Respectfully submitted,

Date: October 10, 2001

Tel. No.: (617) 248-7369 Fax No.: (617) 248-7100

Reg. No. 36,471

Joseph A. Capraro, Jr. Attorney for Applicant(s)

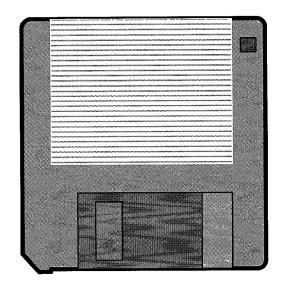
Testa, Hurwitz, & Thibeault, LLP

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Boston, Massachusetts 02110

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THESE PAPERS

PATENT
Attorney Docket No. QCS-003DV

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):

Kamieniecki

SERIAL NO.:

Not yet assigned

GROUP NO.:

Not yet assigned

FILING DATE:

October 10, 2001

EXAMINER:

Not yet assigned

TITLE:

APPARATUS AND METHOD FOR REAPID PHOTO-THERMAL

SURFACE TREATMENT

INFORMATION DISCLOSURE STATEMENT

Box Patent Application Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

In accordance with the provisions of 37 C.F.R. §1.97, Applicants hereby make of record the references listed on the accompanying Form PTO-1449 for consideration by the Examiner in connection with the examination of the above-identified patent application. Per 37 C.F.R. §1.98 (d), copies of references are not enclosed for references previously submitted to the Office, or cited by the Office, in prior application 09/003,670, which was filed on January 7, 1998, and is relied on for an earlier filing date under 35 U.S.C. 120. Applicant will supply a copy of references previously submitted to the Office, or cited by the Office, in prior application 09/003,670, if requested to do so.

REMARKS

In accordance with the provisions of 37 C.F.R. §1.97, this statement is being filed (CHECK ONE):

(1)	within three (3) months of the Filing Date or before the mailing date of the First Office Action on the merits; or
(2)	after the period defined in (1) but before the mailing date of a Final Rejection or Notice of Allowance , and
	the requisite Statement is below, OR
	the requisite fee under Rule 1.17(p), namely \$240.00, is included herein, or



	Information Disclosur Serial No.: Not yet as Page 2 of 3									
	(3)	after the mailing date of a Final Rejection or Notice of Allowance but before the payment of the Issue Fee , AND								
		Applicant hereby Petitions the Commissioner to accept and consider the attached Information Disclosure Statement, AND								
		the requisite Statement is below, AND								
		the requisite petition fee due under Rule 1.17(i)(I), namely \$130.00 is included herein.								
It is respectfully requested that each of the references shown on the attached Form PTO-1449 be made of record in this application.										
		STATEMENT								
	As required	under §1.97(e), Applicants, through the undersigned, hereby state either that [check the								
	appropriate space]:								
	1	[E]ach item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart								
		foreign application not more than three months prior to the filing date of the								
		Information Disclosure Statement; or								
	_ 2	. [N]o item of information contained in the Information Disclosure Statement was								
		cited in a communication from a foreign patent office in a counterpart foreign								
		application, and to the knowledge of the person signing this Statement after								
		making reasonable inquiry, no item of information contained in the Information								
		Disclosure Statement was known to any individual designated in §1.56(c) more								
		than three months prior to the filing of the Information Disclosure Statement.								

Information Disclosure Statement Serial No.: Not yet assigned

Page 3 of 3

FEE AUTHORIZATION

Should any fee associated with the submission of this paper not be attached hereto as a check, the Commissioner is authorized to charge the missing fee to our Deposit Account, No. 20-0531. Any overpayments should be credited to said Deposit Account.

Respectfully submitted,

Date: October 10, 2001

Reg. No. 45,349

Tel. No.: (617) 248-7677 Fax No.: (617) 248-7100

Joseph P. Sullivan

Attorney for the Applicant(s) Testa, Hurwitz, & Thibeault, LLP

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Boston, Massachusetts 02110

FORM PTO - 1449

INFORMATION DISCLOSURE STATEMENT

APPLICANT: Kamieniecki

SERIAL NO.: Not yet assigned

FILING DATE: October 10, 2001

				SERIAL N	O.: Not ye	t assigned			φ.	
				FILING DA	ATE: Octo	ber 10, 200	1		1 6262	
				GROUP: N	lot yet assi	gned			J.	
		U.S	S. PATENT	DOCUMI	ENTS					
EXAM. INIT.	DOCUMENT NUMBER	DATE	NAME			CLASS	SUB CLASS		NG DATE II ROPRIATE	
	4,544,887	10/01/85	Kamienie	Kamieniecki			158	10/21/82		
· · · · · · · · · · · · · · · · · · ·	4,558,660	12/17/85	Nishizawa	Nishizawa et al.			725	3/16/83		
	4,581,578	04/08/86	Honma et	Honma et al.			158	01/31/84		
	4,599,558	07/08/86	Castellan	o, Jr. et al.		324	158	12/14/83		
	4,871,417	10/3/89	Nishizawa	a et al.		156	640	/87		
	5,306,671	04/26/94	Ogawa et	al.						
	5,453,702	09/26/95	Goldfarb	Parb 324			765	11/2	11/29/93	
	5,470,799	11/28/95	Itoh et al.			437	238	4/24	4/24/89	
	5,471,293	11/28/95	Lowell et	al.		356	30	02/02/94		
	5,663,657	09/02/97	Lagowski	et al.		324	766	09/26/94		
	5,661,408	08/26/97	Kamienie	Kamieniecki et al.			765	03/01/95		
	5,716,495	2/10/98	Butterbau	Butterbaugh et al.			643.1	3/25	/96	
		FORE	IGN PATE	NT DOCU	IMENTS					
EXAM. INIT.	DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY		ENGLISH LANG Y/N	
	41 22 587	01/23/93	DE						N	
	WO 94/23854	10/27/94	PCT						Y	
		OTHER A	RT, JOUR	NAL ART	ICLES, E	ETC.				
EXAM. INIT.	OTHER DOCUMEN	TS: (Includir	ng Author, Ti	itle, Date, Re	levant Pag	ges, Place o	of Publicat	ion)	**	
	Akazawa et al., "Photostimulated Evaporation of SIO2 and SI3N4 Films by Synchrotron Radiation and it s Application for Low-Temperature Cleaning of SI Surfaces", <i>Journal of Vacuum Science and Technology</i> , Vol. 9. No. 5, September 1, 1991, pp. 2653-2661									

DATE CONSIDERED

EXAMINER

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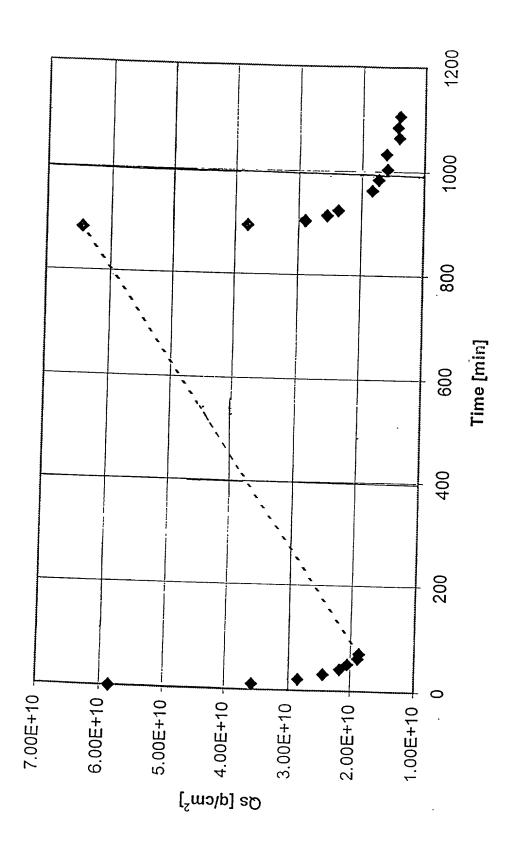


Figure 1

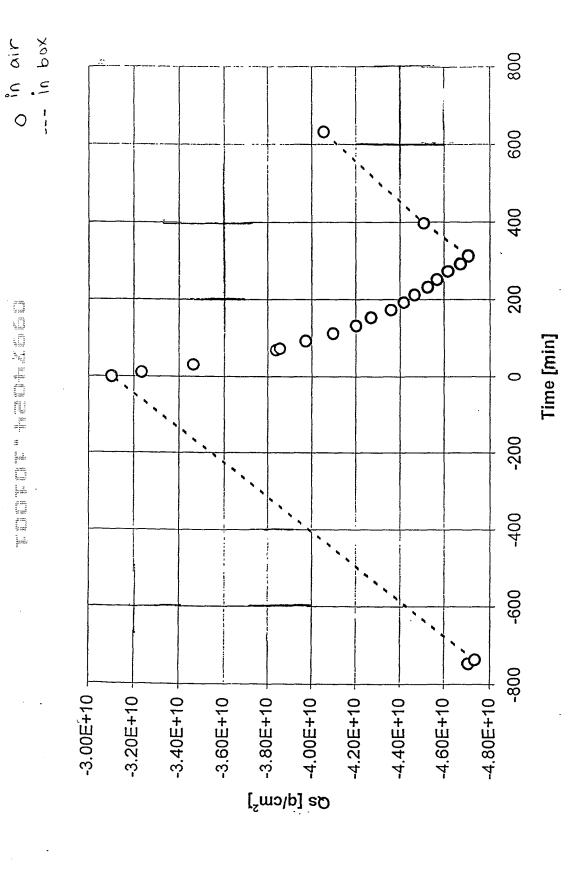


Figure 2

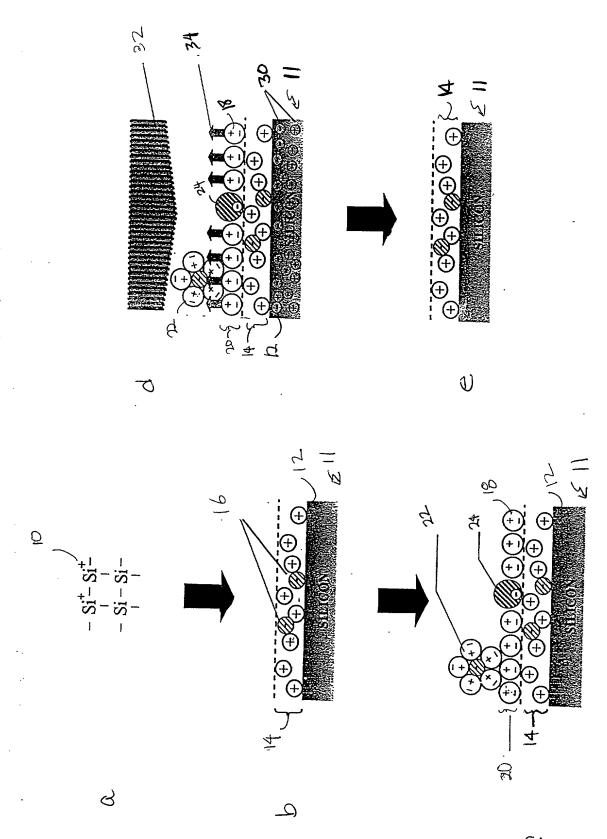


Figure 3

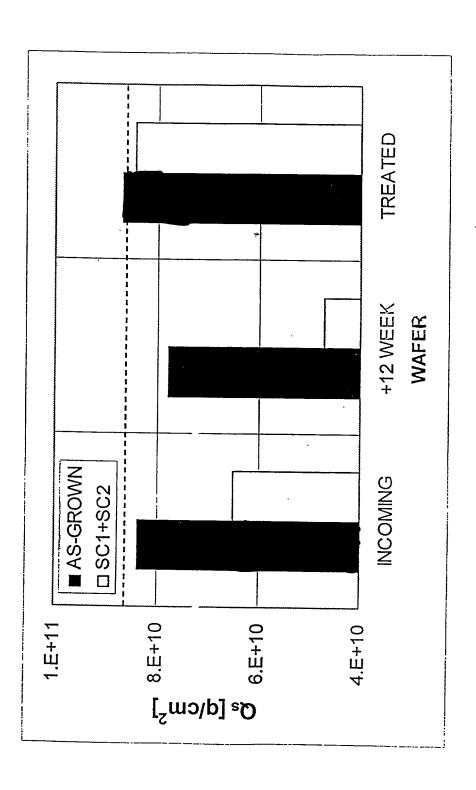


Figure 4

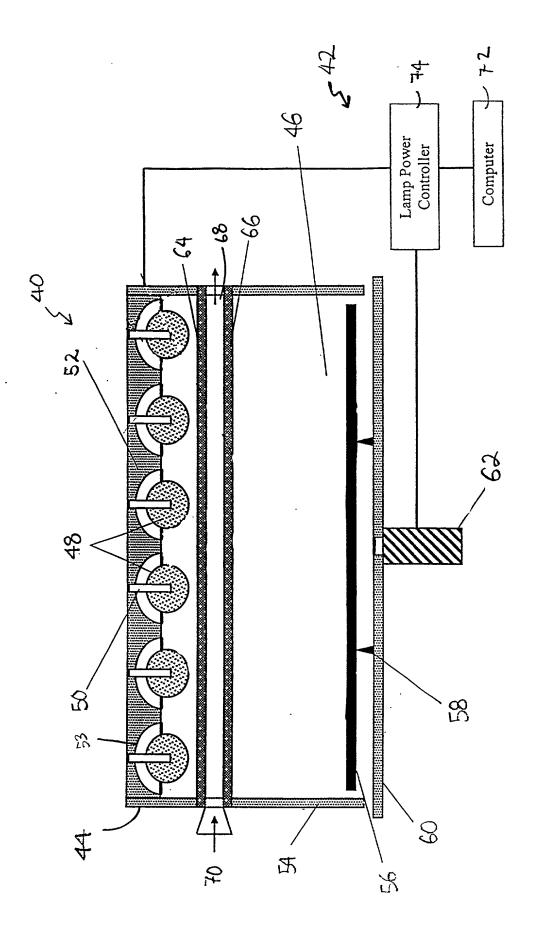


Figure 5

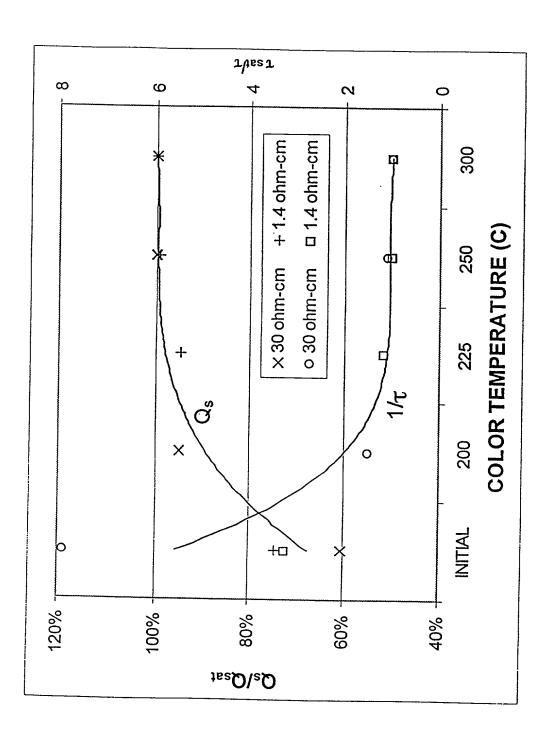


Figure 6

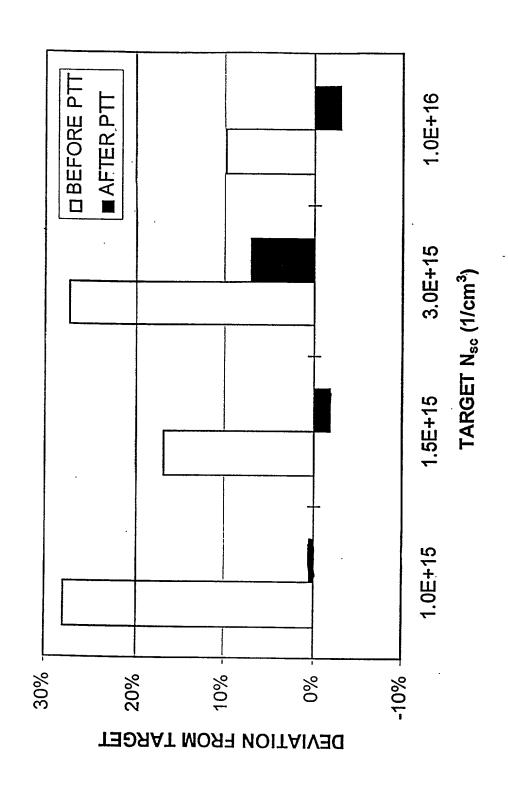


Figure 7

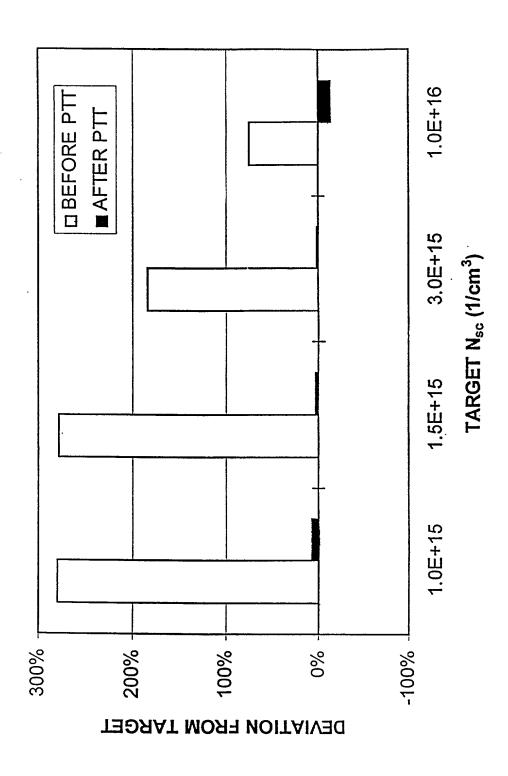


Figure 8